AMENDMENTS TO THE CLAIMS:

The listing of claims included hereinbelow will replace all prior versions and listings of claims in the application. Please cancel Claims 7, 8, 19-35 and 39-42 without disclaimer or prejudice to Applicant's right to pursue the subject matter of these claims in future divisional or continuation applications.

Listing of Claims:

- 1-8. (Cancelled)
- 9. (Previously presented) An isolated nucleic acid fragment encoding a protein comprising SEQ ID NO:2 or an isolated nucleic acid fragment complementary to a nucleic acid fragment encoding a protein comprising SEQ ID NO:2.
- 10. (Previously presented) The nucleic acid fragment of Claim 9, wherein the nucleic acid fragment comprises SEQ ID NO:1, or a nucleic acid sequence complementary to SEQ ID NO:1.

11-42. (Cancelled)

- 43. (Previously presented) A chimeric gene comprising a nucleic acid fragment according to any one of Claims 9 or 10 operably linked to heterologous regulatory elements that are functional in a host organism.
- 44. (Previously presented) The chimeric gene of Claim 43, wherein the host organism is selected from the group consisting of a bacterium, an *E.* coli bacterium, a yeast, a yeast of the genera *Saccharomyces*, a yeast of the genera *Kluyveromyces*, a yeast of the genera *Pichia*, a fungus, an *Aspergillus* fungus, a plant cell, and a plant.
- 45. (Previously presented) The chimeric gene of Claim 43 further comprising a gene encoding

a selectable marker suitable for the transformation of said host organism operably linked to a heterologous regulatory element that is functional in a host organism.

- 46. (Previously presented) A vector comprising the chimeric gene of Claim 43.
- 47. (Previously presented) A method for transforming a host organism comprising incorporating the chimeric gene of Claim 43 into the genome of said host organism.
- 48. (Previously presented) The method of Claim 47, wherein the chimeric gene is incorporated into the genome of the host organism by means of a vector.
- 49. (Previously presented) The method Claim 47, wherein the host organism is selected from the group consisting of a bacterium, an E. coli bacterium, a yeast, a yeast of the genera Saccharomyces, a yeast of the genera Kluyveromyces, a yeast of the genera Pichia, a fungus, an Aspergillus fungus, a plant cell, and a plant.
- 50. (Previously presented) The method of Claim 49, wherein the host organism is a plant cell.
- 51. (Previously presented) The method of Claim 50, wherein the method further comprises regenerating a plant from the plant cell.
- 52. (Previously presented) A host organism comprising the chimeric gene of Claim 43.
- from the group consisting of a bacterium, an *E.* coli bacterium, a yeast, a yeast of the genera_Saccharomyces, a yeast of the genera Kluyveromyces, a yeast of the genera Pichia, a fungus, an Aspergillus fungus, a plant cell, and a plant.
- 54. (Previously presented) The host organism of Claim 53, wherein the host organism is a plant.
- 55. (Previously presented) A transgenic plant regenerated from a plant cell comprising the chimeric gene of Claim 43.
- 56. (Previously presented) A progeny of the transgenic plant of Claim 55, wherein the progeny

Attorney Docket No.: A33002-PCT-USA (072667.0124)
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comprises the chimeric gene.

- 57. (Previously presented) The plant of Claim 56, wherein the plant is selected from the group consisting of a corn plant, a wheat plant, a rapeseed plant, a soybean plant, a rice plant, a sugar cane plant, a beetroot plant, a tobacco plant and a cotton plant.
- 58. (Previously presented) Seeds from the transgenic plant of Claim 56, wherein the seeds comprise the chimeric gene.
- 59. (Previously presented) A method for preparing an antifungal peptide encoded by the chimeric gene of Claim 43, wherein the method comprises: cultivating a host organism transgenic for the chimeric gene in an appropriate cultivation environment; extracting the antifungal peptide produced by said chimeric gene; and partially or totally purifying the antifungal peptide produced by said chimeric gene.
- 60. (Previously presented) Seeds from the transgenic plant of Claim 57, wherein the seeds comprise the chimeric gene.
- 61. (Previously presented) The vector of Claim 46, wherein the vector is selected from the group consisting of a plasmid, a cosmid, a bacteriophage or a virus.
- 62. (Previously presented) The vector of Claim 61, wherein said virus is a baculovirus.